

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 61-032483

(43)Date of publication of application : 15.02.1986

(51)Int.Cl.

H01L 33/00

(21)Application number : 59-151989

(71)Applicant : KIMURA DENKI KK

(22)Date of filing : 24.07.1984

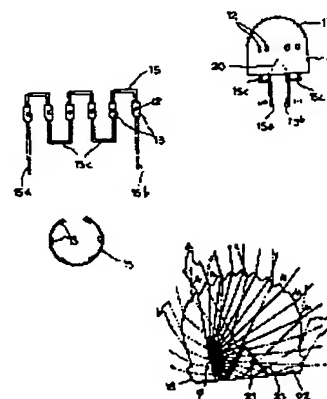
(72)Inventor : MORIKAWA FUMIO

(54) SPHERICAL LUMINOUS BODY USING LED

(57)Abstract:

PURPOSE: To make uniform brightness in the front and the side by a method wherein the light other than direct light from among the light coming from a light source is irregularly reflected inside the resin by means of reflection surfaces each provided by projection at the bottom of a transparent capsule and at the bottom center, and is then reflected by means of the first reflection surface and the second reflection force.

CONSTITUTION: A LED lead frame 15 with two or more LED chips 12 bonded to respective fixed points of a frame made of a conductive material is curved in such a manner that each of LED chips 12 and 13 is disposed in the same circumference at the same intervals. This LED lead frame 15 is encased in a spherical capsule 18 made of clear resin provided with an uneven plane 17 over the whole surface, thus positioning each LED chip 12, so that the light coming from the light source may be released out from the front and the side, and is fixed in this capsule with the clear resin. Next, a conical projection 21 provided with the first oblique reflection surface 20 by application of a reflection paint to the surface is arranged at the bottom center of this capsule 18, and the second reflection surface 22 is provided by applying the reflection paint to the bottom of this capsule 18.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

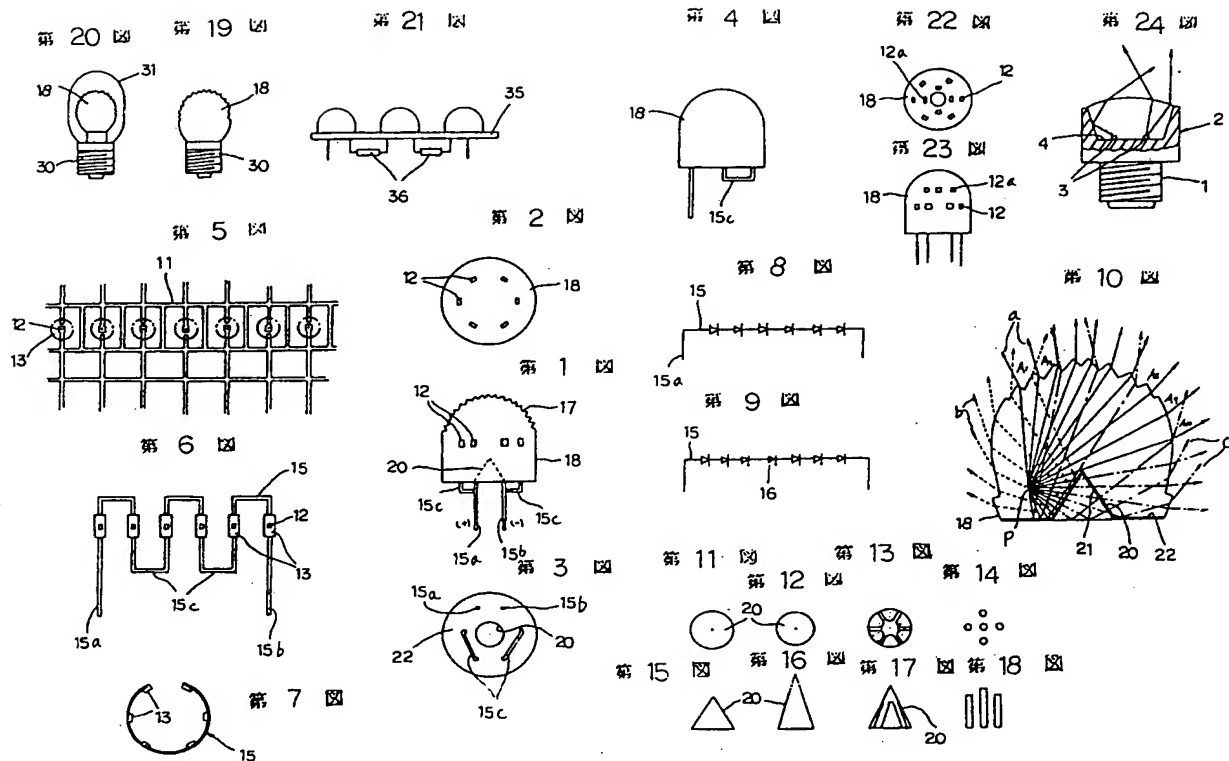
[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japanese Patent Office



KIMU- ★ U12 86-085263/13 ★ J6 1032-483-A
Spherical light emitting body using LED(s) - comprises LES chips in
series within transparent capsule having lens NoAbstract Dwg 0/18
KIMURA DENKI KK 24.07.84-JP-151989
(15.02.86) H011-33
24.07.84 as 151989 (4pp)
N86-062142

U12-A1A